

Main

Range of product	Harmony XB5
Product or component type	Wireless and batteryless transmitter
Device short name	XB5R
Bezel material	Plastic
Transmission frequency	2405 MHz
Emission class	5M00G7W
Antenna type	Omnidirectional

Complementary

Max power consumption in W	1 mW
Number of channels	1
Modulation Technique	O-QPSK
Bandwidth	5 MHz
Antenna gain	0 dBi
CAD overall height	144 mm
CAD overall width	56 mm
CAD overall depth	38 mm
Net weight	0.15 kg
Pulling force	45...1000 N
Mechanical robustness	Free fall resistance 1000 mm conforming to EN/IEC 60068-2-32
Standards	CSA C22.2 No 14 UL 508 EN/IEC 60947-5-1 EN/IEC 60947-1
Radio agreement	ANATEL ARIB T66 FCC ICASA RSS SRRC
Communication port protocol	Zigbee green power at 2.4 GHz conforming to IEEE 802.15.4
Maximum sensing distance	100 M in free field 25 M transmitter in a plastic box type XAL D and receiver in a metal enclosure 300 m transmitter in box type XAL D, receiver in metal enclosure and use relay-antenna
Acquisition time	2 ms
Response time	< 2 ms
Emission power	3 mW
Fixing mode	By screw: 1.8...2.2 N.m
Mounting mode	Between 2 ropes Panel-mounted
Operating position	Any position

Environment

Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-25...70 °C
Relative humidity	95 % at -25...70 °C without condensation
IP degree of protection	IP66 (outdoor) conforming to IEC 60529
NEMA degree of protection	NEMA 4X for outdoor installation
IK degree of protection	IK05 conforming to IEC 50102
Mechanical durability	1000000 cycles
Shock resistance	25 gn (duration = 6 ms) for 6000 shocks conforming to IEC 60068-2-27 30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27
Vibration resistance	5 gn (f= 11...500 Hz) conforming to IEC 60068-2-6 +/- 10 mm (f= 2...11 Hz) conforming to IEC 60068-2-6
Electromagnetic compatibility	Electrostatic discharge immunity test - test level: 8 kV (in free air (in insulating parts)) Electrostatic discharge immunity test - test level: 6 kV (on contact (on metal parts)) Susceptibility to electromagnetic fields - test level: 10 V/m (80...2000 MHz) Susceptibility to electromagnetic fields - test level: 3 V/m (80...2700 MHz, distance = 20 m) Immunity for industrial environments Radiated emission
Product certifications	UL[RETURN]C-Tick[RETURN]BT 2006/95/ EC[RETURN]CSA[RETURN]GOST[RETURN]CCC
Directives	1999/5/EC - R&TTE directive 2004/108/EC - electromagnetic compatibility

Offer Sustainability

EU RoHS Directive	Under investigation
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